Divisional Application of Serial No.: 09/023,416

REMARKS

Claims 1-6 have been amended and new claims 7-12 have been added to more particularly point out and distinctly claim the subject matter which the applicants regards as their invention.

The above amendment is believed to place the claims in proper condition for examination. Early and favorable action is awaited.

In the event that any fees are due in connection with this paper, please charge our Deposit Account No. 01-2340.

Respectfully submitted,

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Enclosure:

Version with Markings Showing Changes Made

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE CLAIMS:

Please amend claim 1-6, as follows:

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1. (Amended) A fluid control apparatus comprising a plurality of lines, each line having

a fluid controller, an inlet on-off device and an outlet on-off device arranged respectively at an

inlet side and an outlet side of each of the fluid controllers, each of the on-off devices comprising

one valve or a plurality of valves, with the adjacent valves interconnecting each other without

using tubing,

each of the on-off devices being of the type selected from the group including a 2-type

on-off device having a two-port valve, a 2-3-type on-off device having a two-port valve and a

three-port valve, a 2-3-3 -type on-off device having a two-port valve and two three-port valves,

a 3-3-type on-off device having two three-port valves, and a 3-3-3-type on-off device having

three three-port valves,

main bodies of two-port valves of all types of on-off devices being identical in

configuration and each having an inlet port and an outlet port in a bottom face thereof, and main

bodies of three-port valves of all types of on-off devices being identical in configuration and

each being formed in a bottom face thereof with an inlet port, an outlet port always in

communication with the inlet port, and an inlet-outlet subopening having a port separate from

said inlet port and said outlet port;

each port of said two-port valves and said three-port valves being arranged in a row

disposed in a common plane along said each line; and

valve mounts mounting said valve main bodies including a plurality of joint members

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having upper surfaces disposed in substantial coplanar relation and having a channel for holding

the adjacent inlet port and outlet port of adjacent valves in communication, said joint members

containing internal passages communicating with ports of said valves and operatively

interconnecting said valves and said fluid controllers in selected fluid flow relation.

2. (Amended) A fluid control apparatus according to claim [1] 7 wherein a fluid is passed

through at least one of the fluid controllers, and the 2-type on-off device is disposed at each of

the inlet side and the outlet side of said at least one fluid controller.

3. (Amended) A fluid control apparatus according to claim [1] 8 wherein two kinds of

fluids are passed through at least one of the fluid controllers, and the 2-3-type on-off device is

disposed at each of the inlet side and the outlet side of said at least one fluid controller.

4. (Amended) A fluid control apparatus according to claim [1] 12 wherein two kinds of

fluids are passed through at least one of the fluid controllers, and the 2-3-type on-off device is

disposed at the inlet side of said at least one fluid controller, the 2-3-3-type on-off device being

disposed at the outlet side thereof.

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5. (Amended) A fluid control apparatus according to claim [1] 10 wherein two kinds of

fluids are passed through at least one of the fluid controllers, and a bypass channel bypassing

said at least one fluid controller is provided between the inlet side and the outlet side thereof, the

3-3-type on-off device being disposed at each of the inlet side and the outlet side of said at least

one fluid controller.

6. (Amended) A fluid control apparatus according to claim [1] 12 wherein two kinds of

fluids are passed through at least one of the fluid controllers, and an evacuating channel is

provided at the outlet side of said at least one fluid controller, a bypass channel bypassing said

at least one fluid controller and being provided between the inlet side and the outlet side thereof,

the 3-3-type on-off device being disposed at the inlet side of said at least one fluid controller, the

3-3-3-type on-off device being disposed at the outlet side thereof.

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